



Inishowen Rivers Trust

SuDS Workshop

Scoil Mhuire Tuesday 27th February 2024

SuDS Workshop

1.40 - 2.00 - Introduction

Work of the Inishowen Rivers Trust

Introduction to YSI Project

2.00 - 2.20 - Monitoring Water Quality

Looking at water quality monitoring by agencies

Bathing Water Quality - what is it telling us?

2.30 - 3.10 - What can we do?

Long term vs Short Term

Sustainable Urban Drainage Systems demonstration

3.10 - 3.40 - School SuDS

Map movement of water around school grounds. Look at possible nature based solutions for improving water quality, managing water movement

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The Inishowen Rivers Trust covers an area of approximately 900km² and includes all the rivers, lakes, streams, estuarine and coastal areas of the Inishowen Municipal District. Inishowen includes 3 Water Framework Directive catchments, 10 sub-catchments and 61 river sub-catchments.

Young Social Innovators

New Solutions to Social Problems

What is the problem you are trying to address?

Research and Understand

Raise Awareness

Develop a Plan of Action

Problem you are addressing



Lady's Bay was closed from June - September 2023, it was one of only 3 bathing waters in Ireland that had POOR water quality in 2022.

"Heavy rainfall and its subsequent impacts/pressures are the main issues associated with this decline in classification. In the event of heavy rainfall Buncrana Wastewater treatment Plant and pumping stations (PS) may result in severe surcharging due to a large volume of surface water being carried by the sewers to the PS causing an inability of the pumps to deal with this. The lack of any storm water storage at the facility is also a contributing factor," a notice placed on the beach by Donegal County Council advised.

Can we improve the water quality in Lady's Bay by redirecting where our water goes in heavy downpours?

Research and Understanding the pressures on Lady's Bay



Mill River Waste Discharge

What did you find out?



Marina

pollution- engines, stuff used on boats, erosion, habitat degradation



Farming

Run-off and nutrients in water

A clean home needn't mean a dirty river



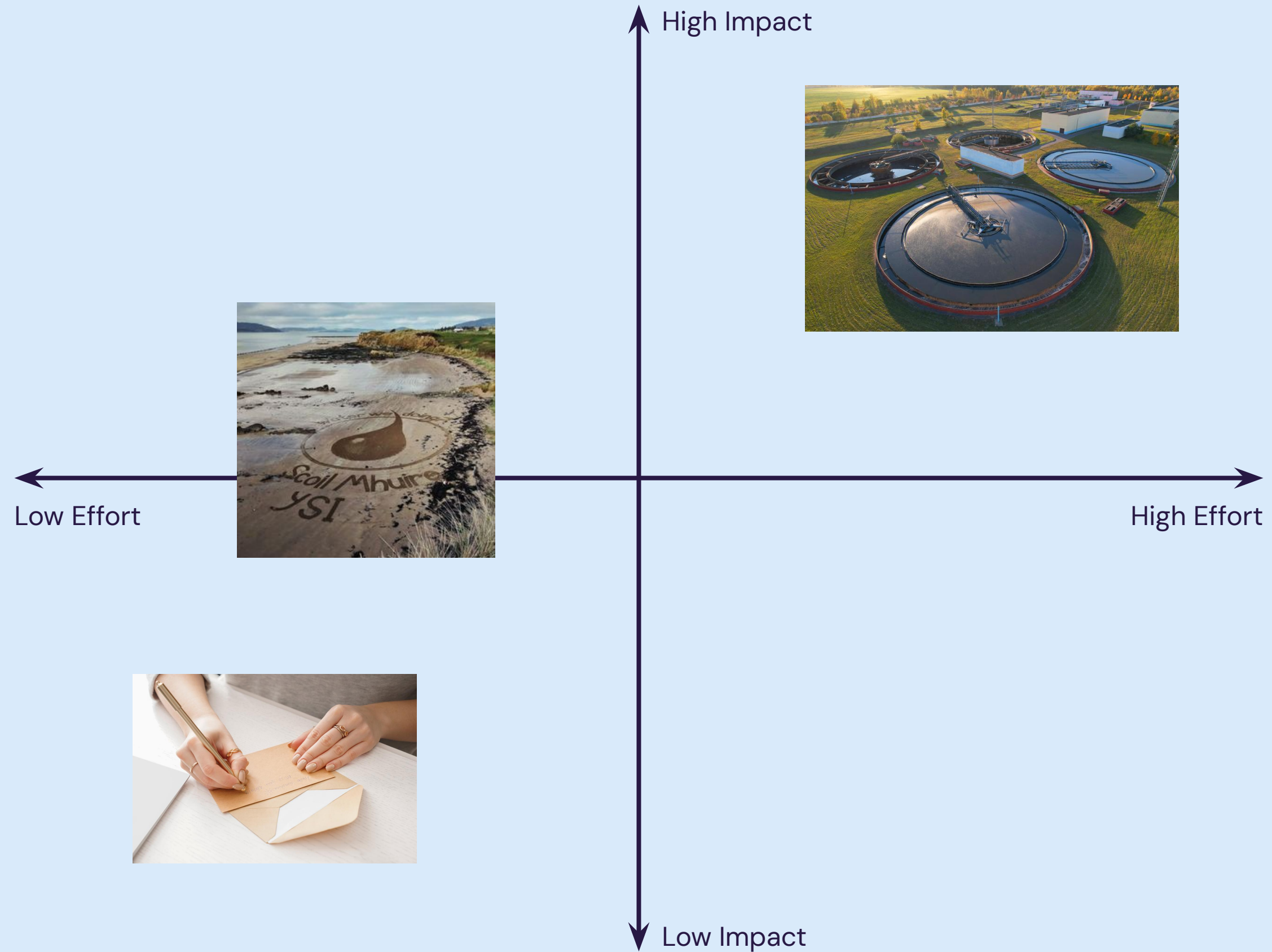
Nitrogen, phosphorus and ammonia are three of the most hazardous toxic chemicals that are found in cleaning products.

Examples of such cleaners would include, but not be limited to:

- dishwasher detergents
- rust, lime and mineral removers.
- floor cleaners.
- products labeled as "all purpose" or "general purpose" cleaners.
- spot removers.
- toilet bowl cleaners.
- upholstery cleaners.
- kitchen cleansers.
- mold and mildew cleaners

Impact/Effort Matrix

Ideas to Create Change



Sustainable Urban Drainage Systems (SUDS)

- reduce pressure on sewerage systems during periods of heavy rainfall.
- reducing the volume of water entering the sewerage system.
- allowing rainwater to infiltrate into the ground or be temporarily stored and gradually released,

Also

- promote ecosystem services
- biodiversity
- and look better



Young
Social
Innovators
are
watching
you.

Ned's Point

Buncrana

ARDARAVAN

Downtown Business Park

MILLTOWN BUSINESS PARK

Ladies Bay

Binnion

Owenkillew River

Image © 2024 Airbus

Google Earth



Water Quantity

Control the quantity of run off to protect support the management of flood risk and maintain and protect the natural water cycle

Biodiversity

Create and sustain better places for nature

SUDS

DESIGN

Amenity

Create and sustain better places for people

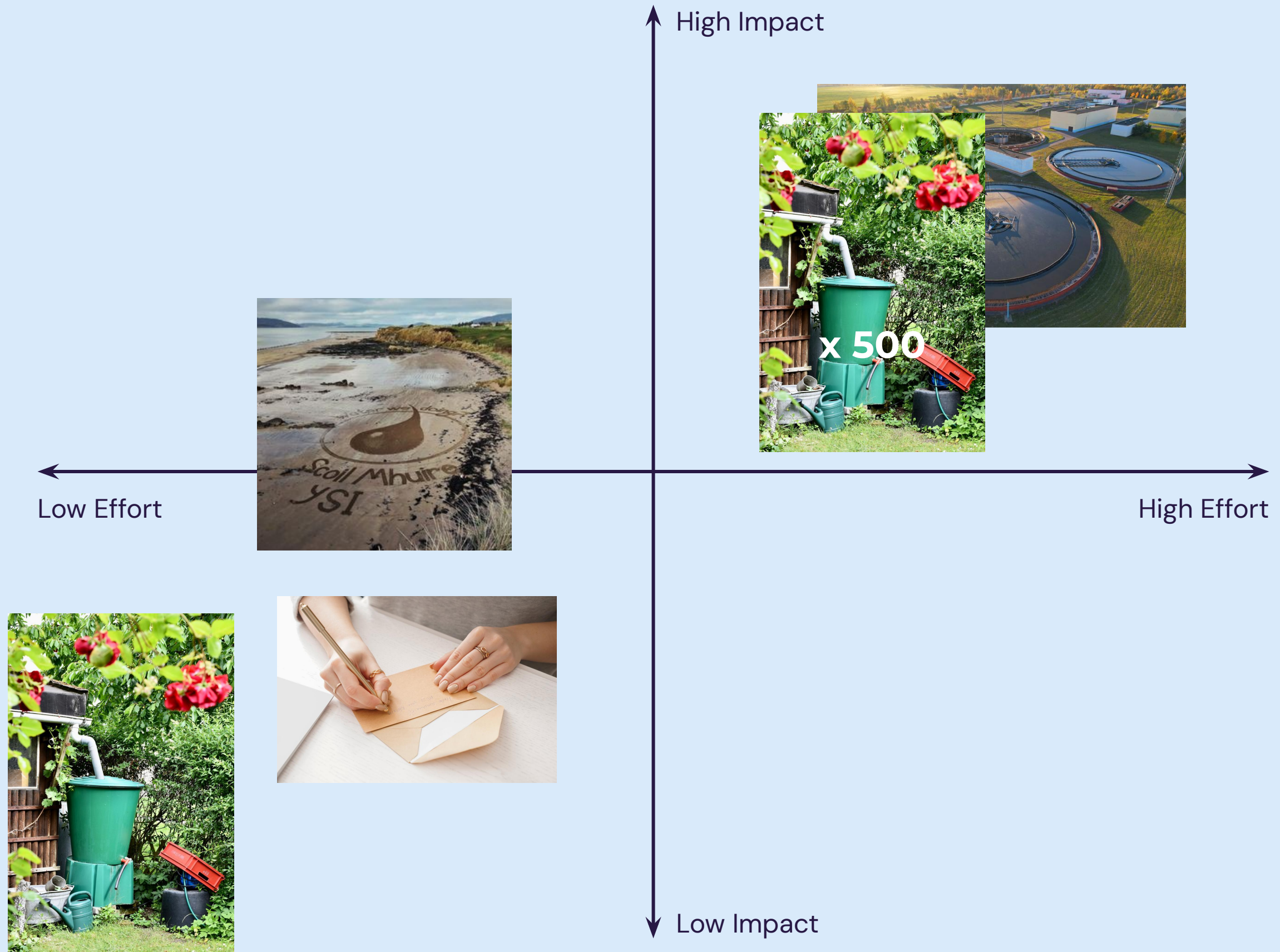
Water Quality

Manage the quality of the run off to prevent pollution



**CLIMATE HEROES:
THE RAIN GARDEN PROJECT**

Impact/Effort Matrix



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